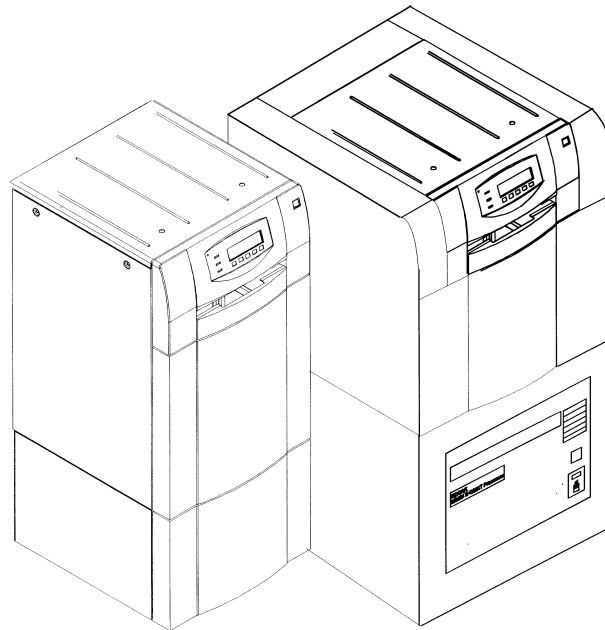




Publication No. IP 3477-01
September 2000

**SUPPLEMENT to
the
PARTS LIST
for
Kodak Miniloader 2000
and
Kodak Miniloader 2000P
SVC's. 3477 – 3479
with
Lightweight Magazine Compatibility**

For the use of QUALIFIED Service Personnel Only

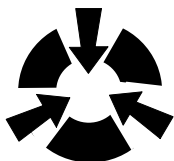


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NOTE

**This equipment includes parts and assemblies sensitive to damage from electrostatic discharge.
Use caution to prevent damage during all service procedures.**

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MINILOADER 2000
MINILOADER 2000P

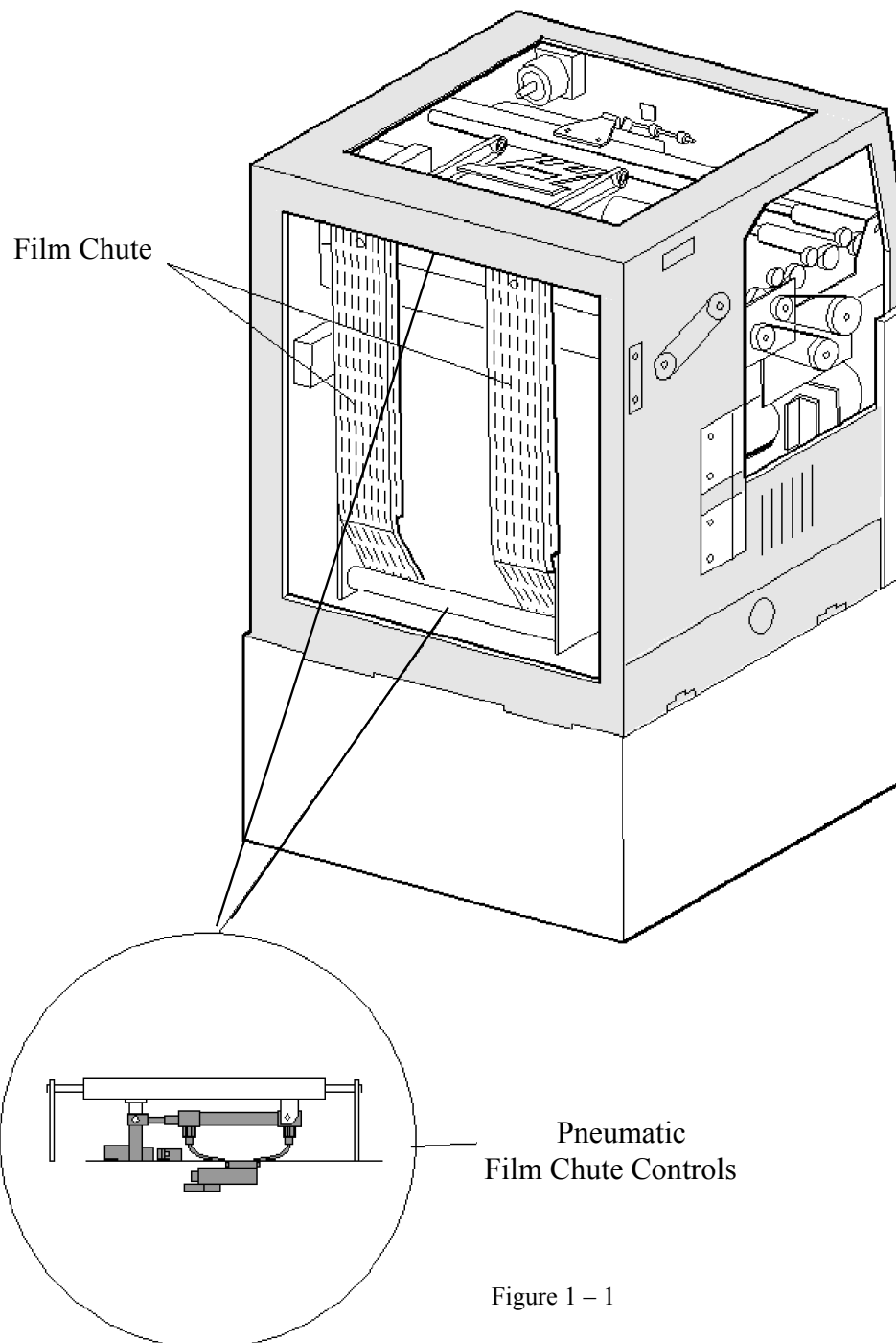
Component Locator

CHAPTER 1

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**REAR VIEW of MINILOADER 2000 showing
FILM CHUTE and CONTROL ASSEMBLY positions**



Pneumatic
Film Chute Controls

Figure 1 – 1

**BLOCK DIAGRAM of FRONT VIEW of
MINILOADER 2000 showing
FILM RECEIVE DRAWER and
LIGHTWEIGHT RECEIVE MAGAZINE position**

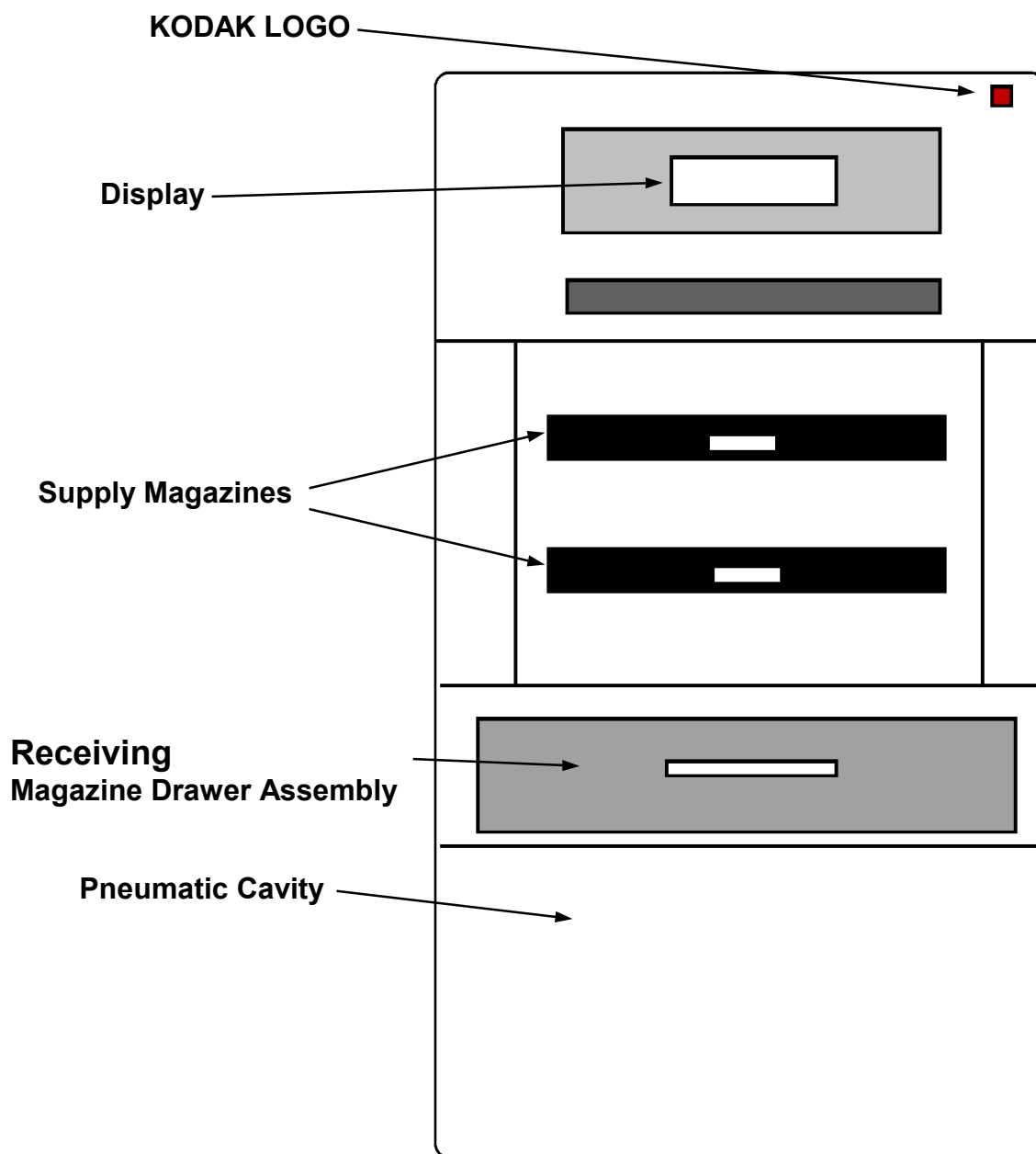
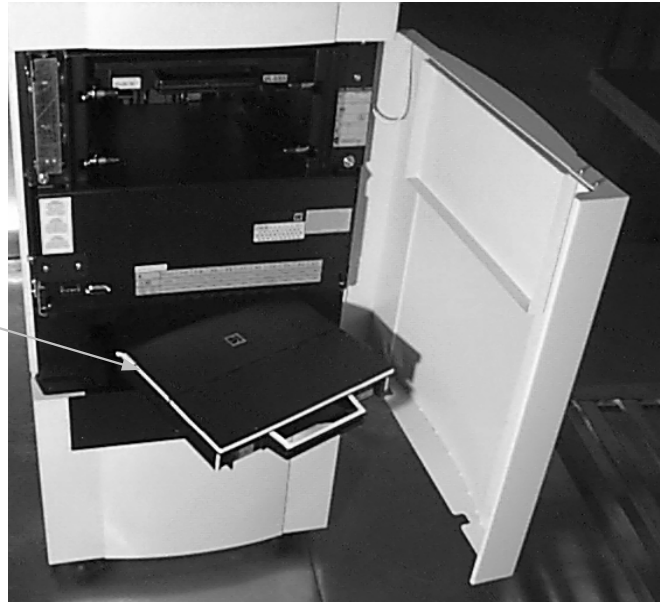


Figure 1 – 2

**Picture of FRONT VIEW of MINILOADER 2000
showing FILM RECEIVE DRAWER and
LIGHTWEIGHT RECEIVE MAGAZINE**

**Lightweight Receive
Magazine.**

Figure 1 – 3



**Diagram showing SIDE VIEW of MINILOADER 2000P
NEW STYLE CHUTE with FILM FLIP facility**

Old Chute

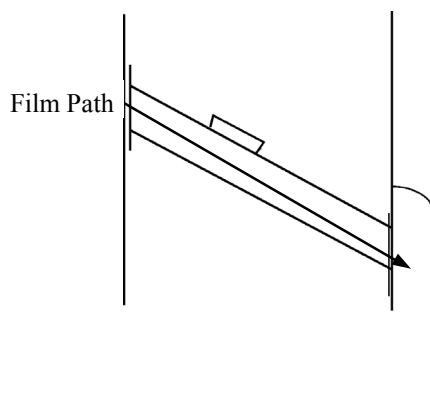


Figure 1 – 4

New Style Chute with
flip CHAMBER

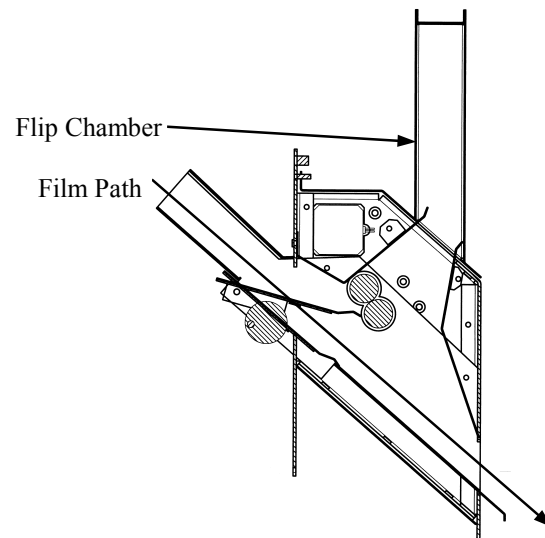


Figure 1 – 5

MINILOADER 2000

Part List

CHAPTER 2

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NOTE:

Parts having no part number and labelled “On request” will not be held in CPSE as it is considered unlikely that they will be required.

If these parts are required they will be made available from the vendor on request .

MINILOADER 2000 Film Chute

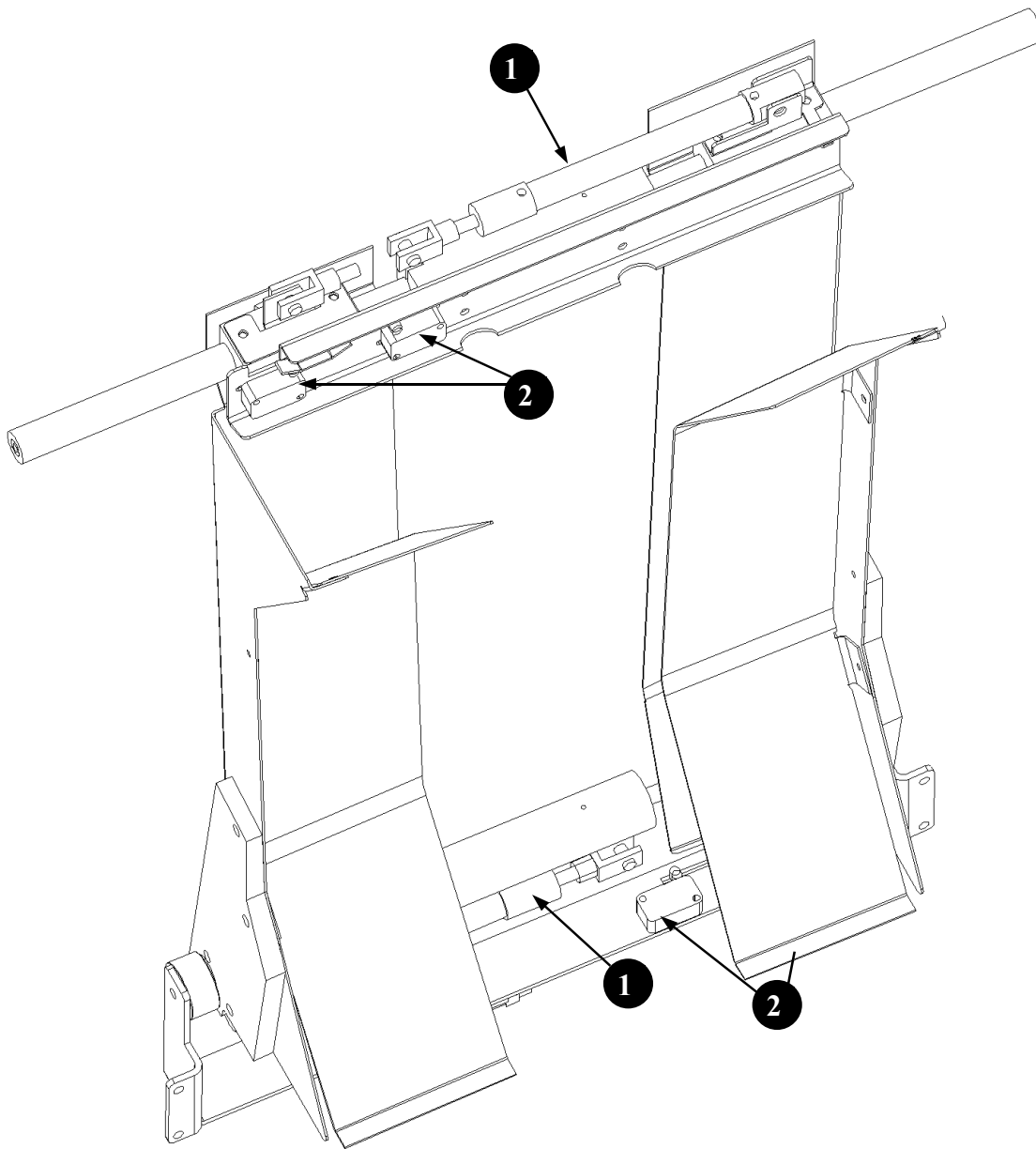


Figure 2 – 1

MINILOADER 2000 Film Chute Parts

Item	Part Number	Description	Qty
1	9306166	Air Cylinder	2
2	4533351	Micro Switch. Chute Limit Switches Top and Bottom (1 not shown)	4

MINILOADER 2000 Film Receive Drawer

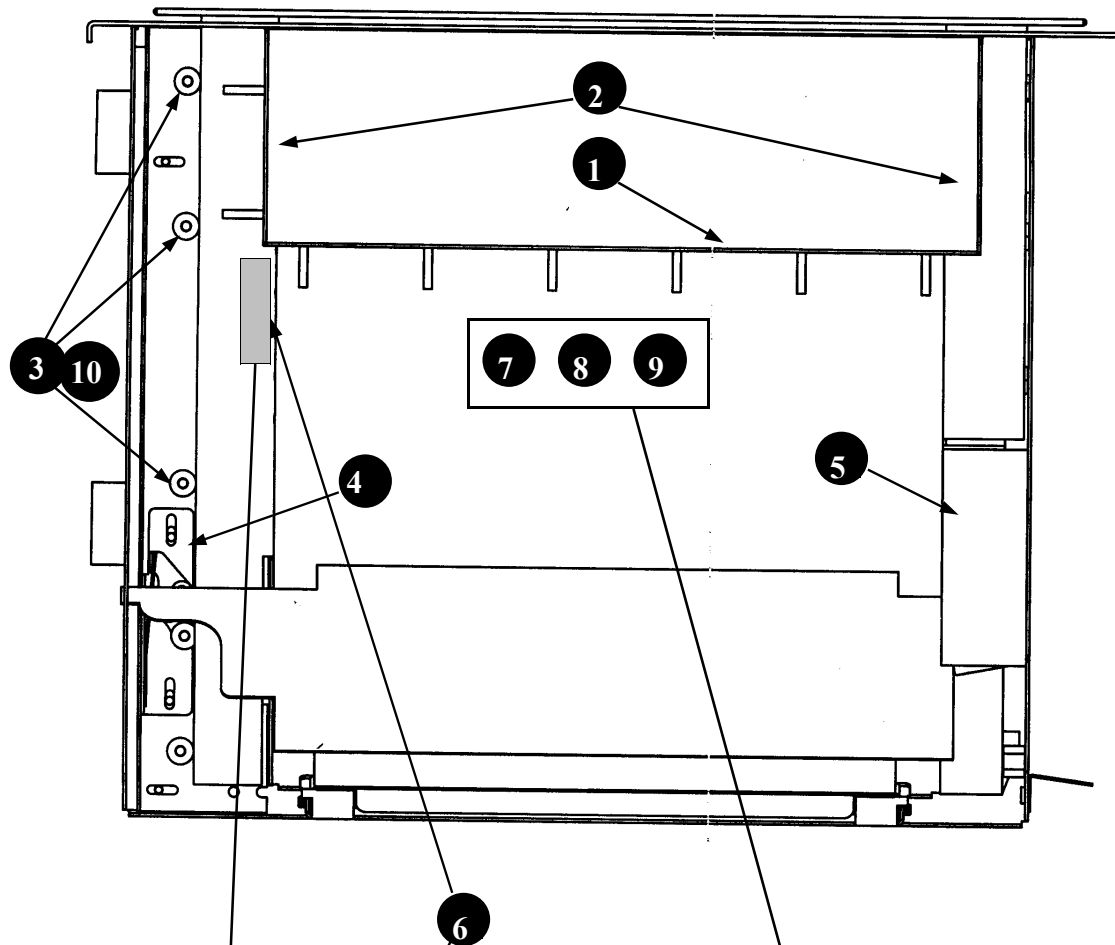
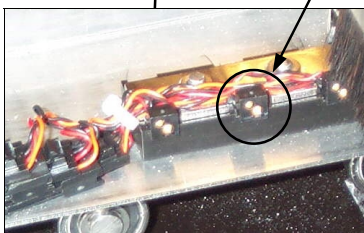


Figure 2 - 2



DETAIL showing
Photo-cells: B33, B34, B35.
Located Under Drawer

Items 7, 8 and 9. Bolt Nut and Washer
to retain the Light Trap Brushes

MINILOADER 2000 Film Receive Drawer Parts

Item	Part Number	Description	Qty
1	9302856	Light Trap Brush (Large)	1
2	9302856	Light Trap Brush (Small) <i>Cut from 9302856</i>	2
3	9183786	Bearing (Small)	8
4	9302496	Latch Assembly (See Detail Page 2 - 8)	1
5	9302186	Static Cam	1
6	9218996	Photo-cell Coding: B33, B34, B35	3
7	4283401	Set Screw (3 mm x 8 mm)	10
8	4853251	Nut (3 mm)	10
9	4480032	Washer (3 mm)	10
10	4500521	"E" Clip	8

MINILOADER 2000 Film Receive Drawer

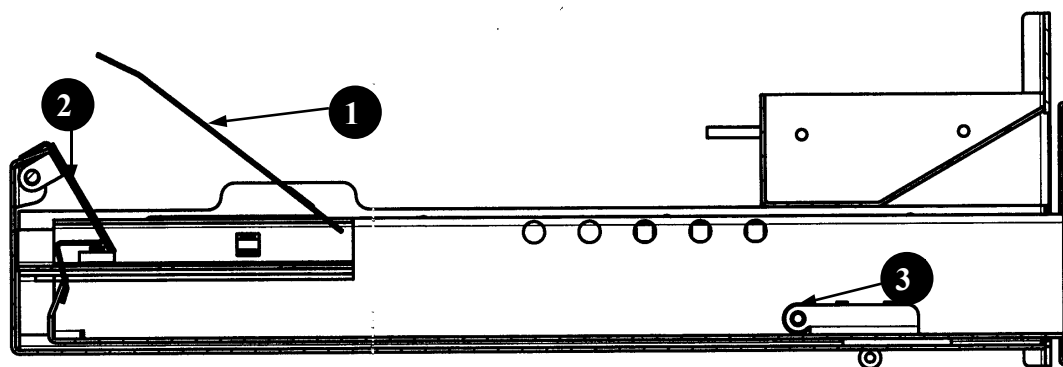


Figure 2 – 3

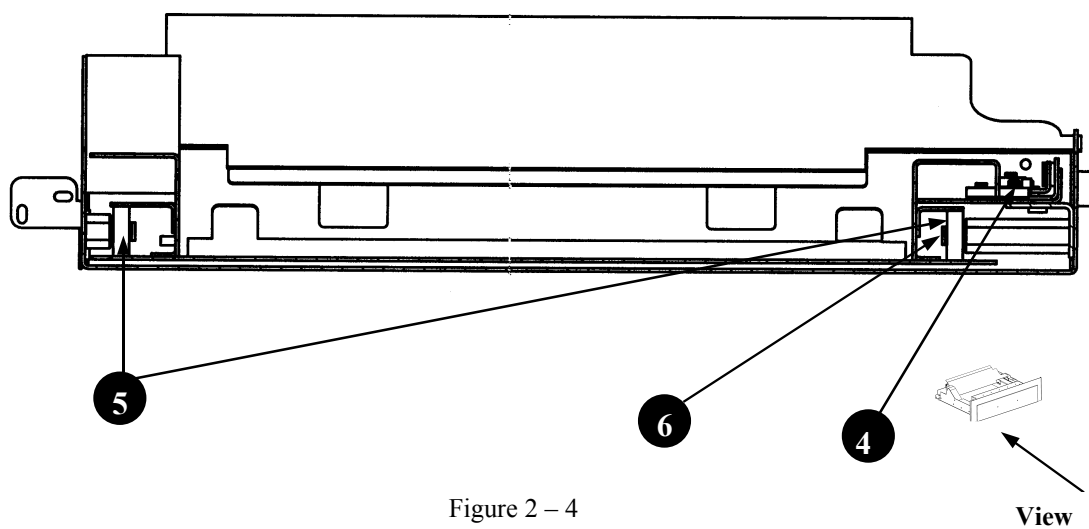
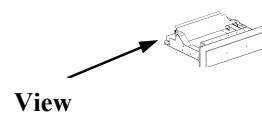


Figure 2 – 4

MINILOADER 2000 Film Receive Drawer Parts

Item	Part Number	Description	Qty
1	On request	Static Guide	1
2	9302236	Moveable Guide	1
3	See Detail on page 2 – 8	Magazine Locator	3
4	9218996	Photo-cell (Coding) B33, B34, B35	3
5	9185371	Bearing (Large)	10
6	4500561	“E” Clip	10

MINILOADER 2000 Film Receive Drawer

Latch Assembly (Magazine Drawer)

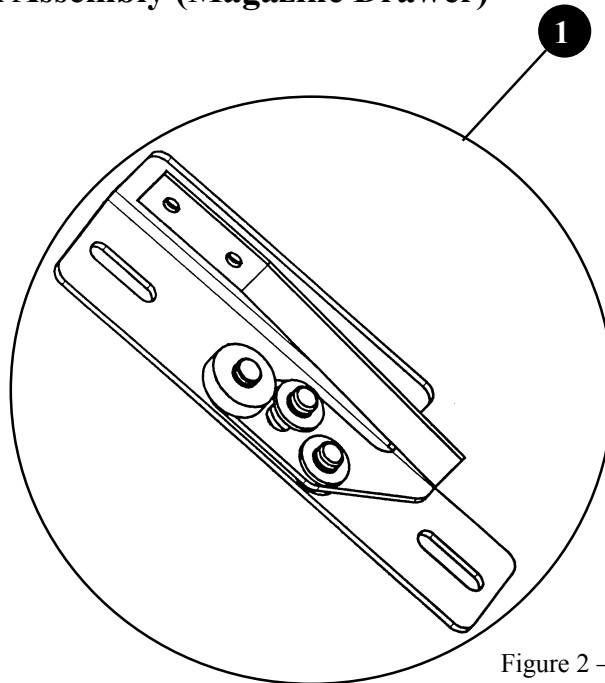


Figure 2 – 5

Magazine Locator

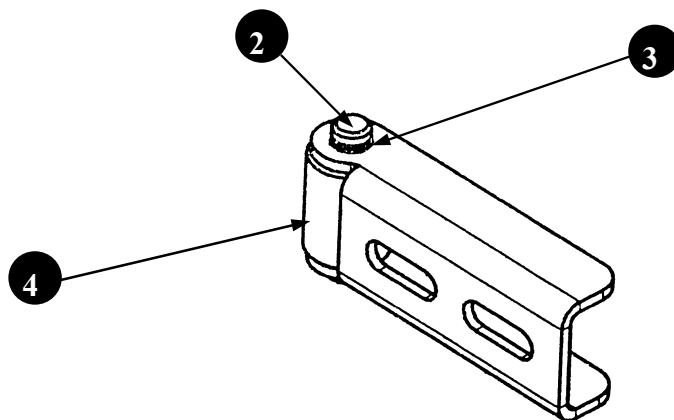


Figure 2 – 6

MINILOADER 2000 Film Receive Drawer Parts

Item	Part Number	Description	Qty
1	9302496	Latch Assembly (Magazine Drawer)	1
2	9302326	Shaft	2
3	4500521	“E” Clip	4
4	9180522	Roller	2

MINILOADER 2000 Film Receive Drawer

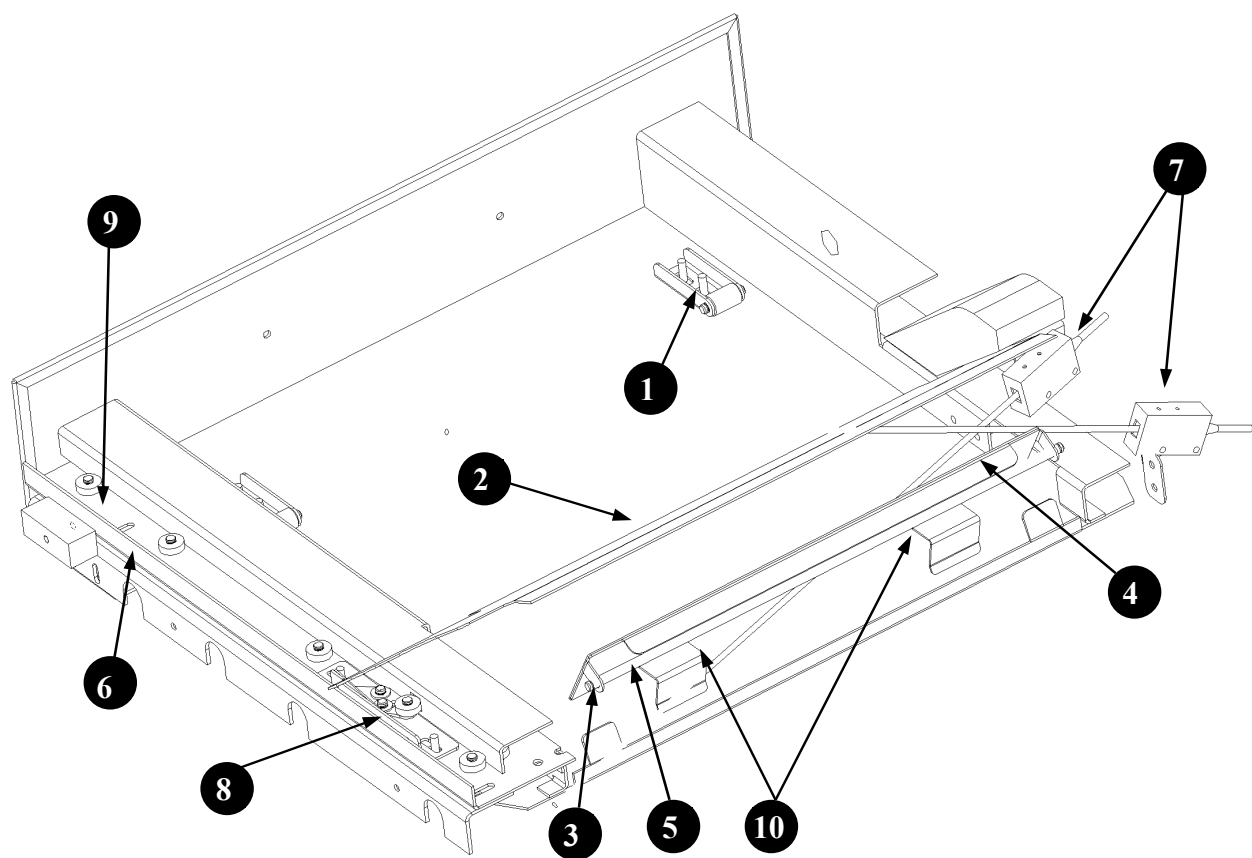


Figure 2 – 7

MINILOADER 2000 Film Receive Drawer Parts

Item	Part Number	Description	Qty
1	See Detail on Page 8	Magazine Locator	2
2	On Request	Static Guide	1
3	4500521	“E” Clip	2
4	9302236	Moveable Guide	1
5	9302626	Shaft	1
6	9218996	Photo-cell (Coding)	3
7	9218982	Photo-cell (Blue)	2
8	9302496	Latch Assembly	1
9	9308086	Wiring Harness (Not Visible)	1
10	8374860	Spring (Moveable Guide)	2

MINILOADER 2000P

Part List

CHAPTER 3

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Film Flip Mechanism AssemblyPage 3 – 2

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Film Flip Mechanism Assembly (Motors etc.).....Page 3 – 6

Film Flip Mechanism Assembly (Cables)Page 3 – 8

NOTE:

Parts having no part number and labelled “On request” will not be held in CPSE as it is considered unlikely that they will be required.

If these parts are required they will be made available from the vendor on request.

MINILOADER 2000P

Film Flip Mechanism Assembly

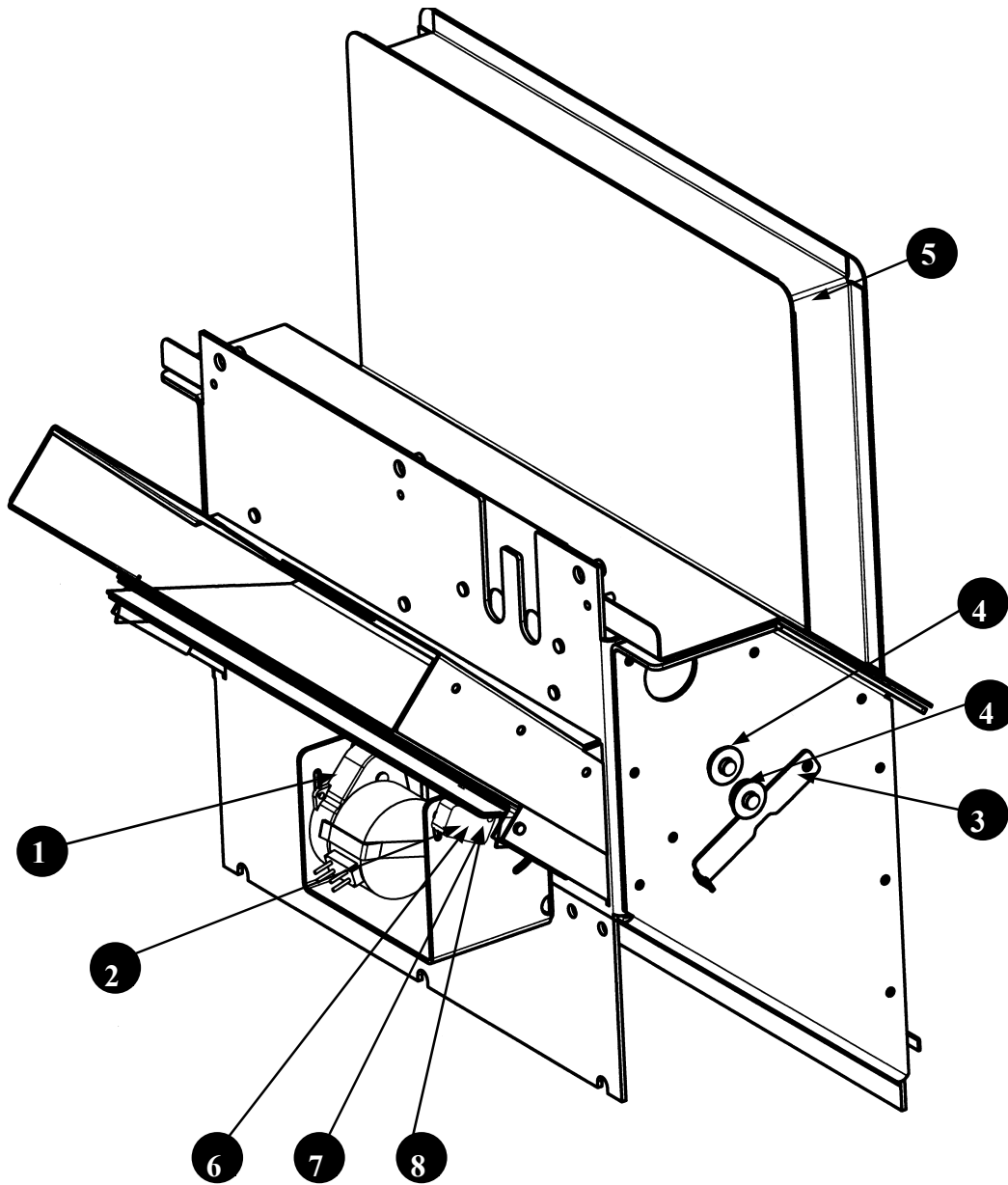


Figure 3 – 1

Item	Part Number	Description	Qty
1	9218126	Motor and Gearbox (M17)	1
2	4533351	Switch	2
3	On request	Lever	2
4	9217011	Bearing	4
5	On request	Flip Chamber	1
6	4282791	Screw	4
7	9181131	Plate (Threaded Plate)	2
8	9182561	Actuator	2

Film Flip Mechanism Assembly *Cont.*

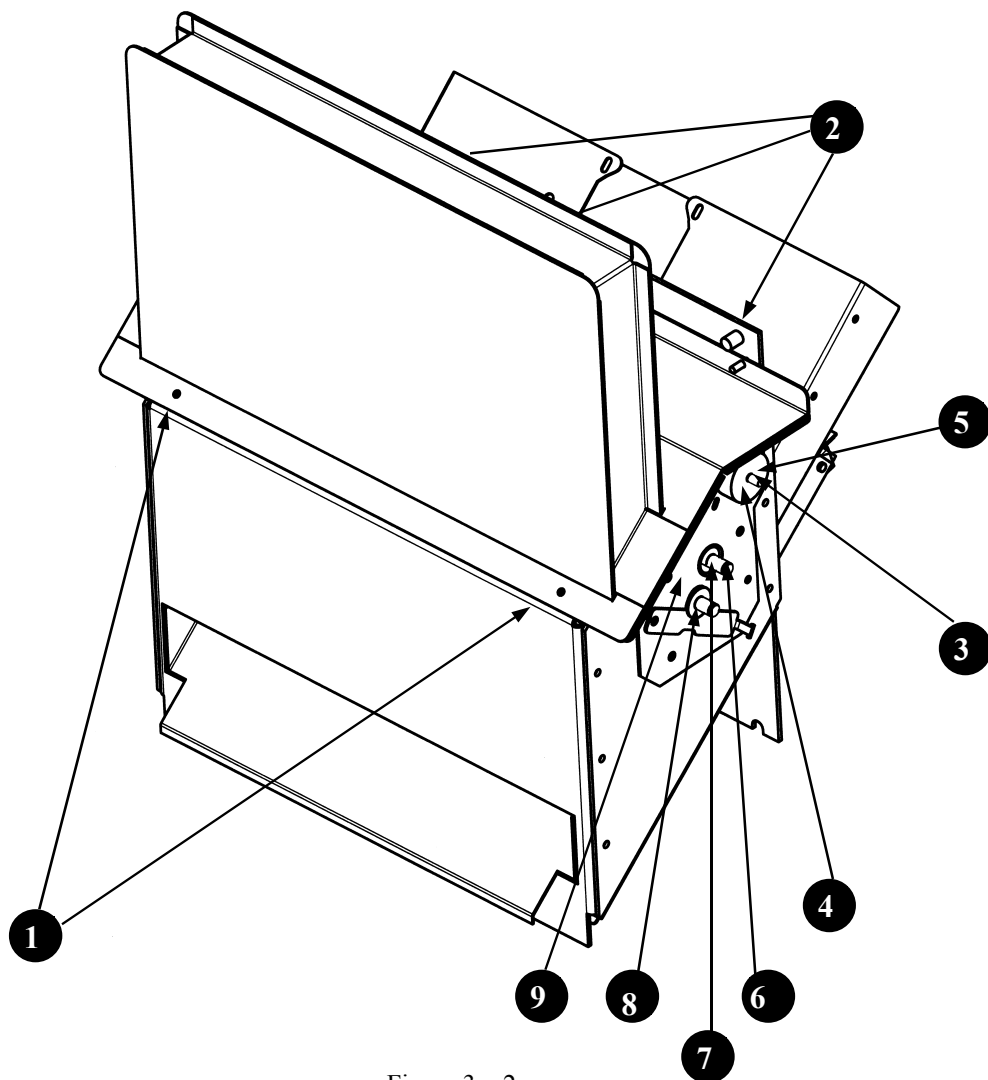


Figure 3 – 2

Film Flip Mechanism Assembly *Cont.*

Item	Part Number	Description	Qty
1	4283121	Retaining screws	2
2	Not required	Studs Only no Nuts Required	0
3	4796371	Pin for (Motor Pulley)	1
4	4500521	“E” Clip (Motor Pulley)	1
5	9216111	Motor Pulley	1
6	9212831	Pin (Roller Pulley) (Not Shown)	1
7	9301856	Roller Pulley (Not Shown)	1
8	9211731	Washer “Used as a Flange for the Roller Pulley” (Not Shown)	2
9	9317386	Belt (Not Shown)	1

Film Flip Mechanism Assembly *Cont.*

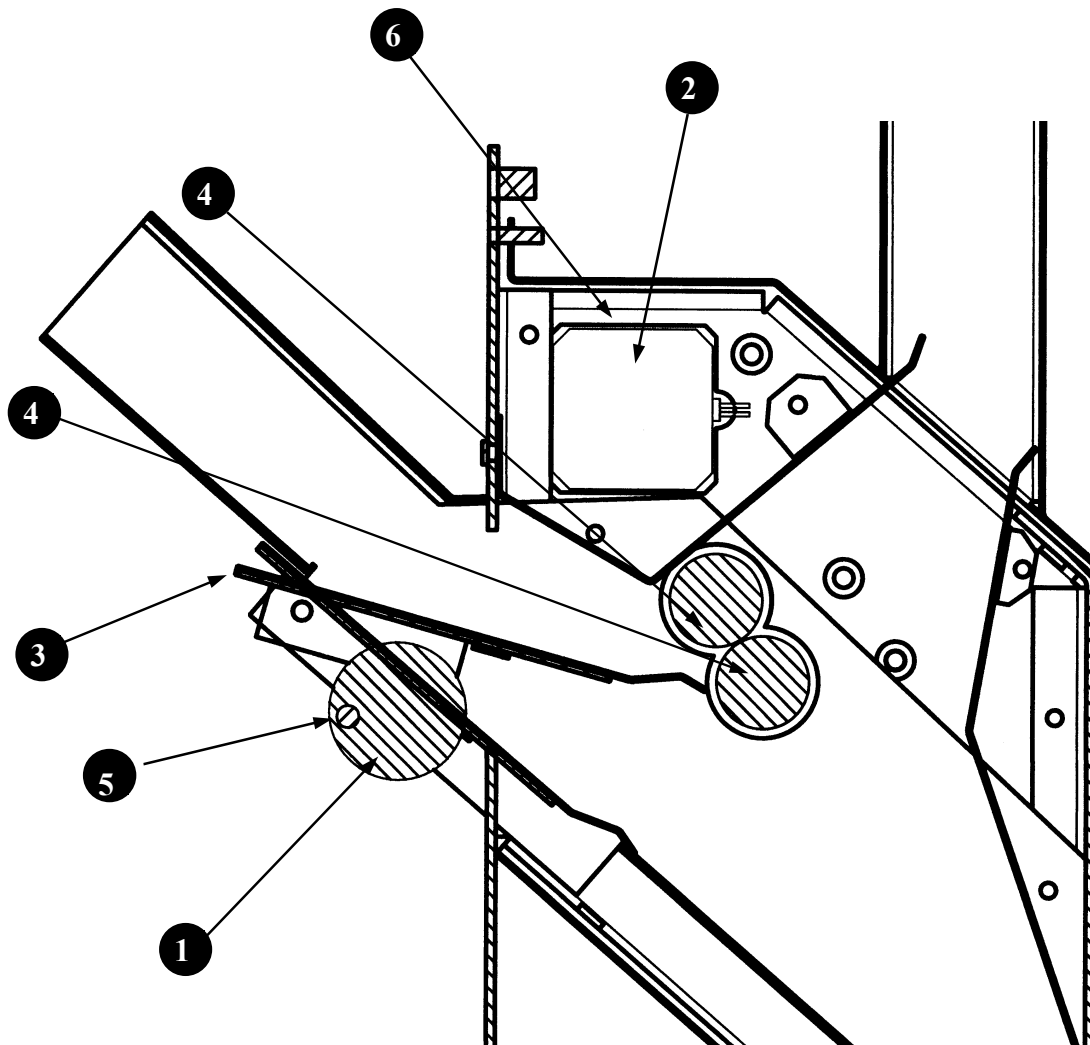
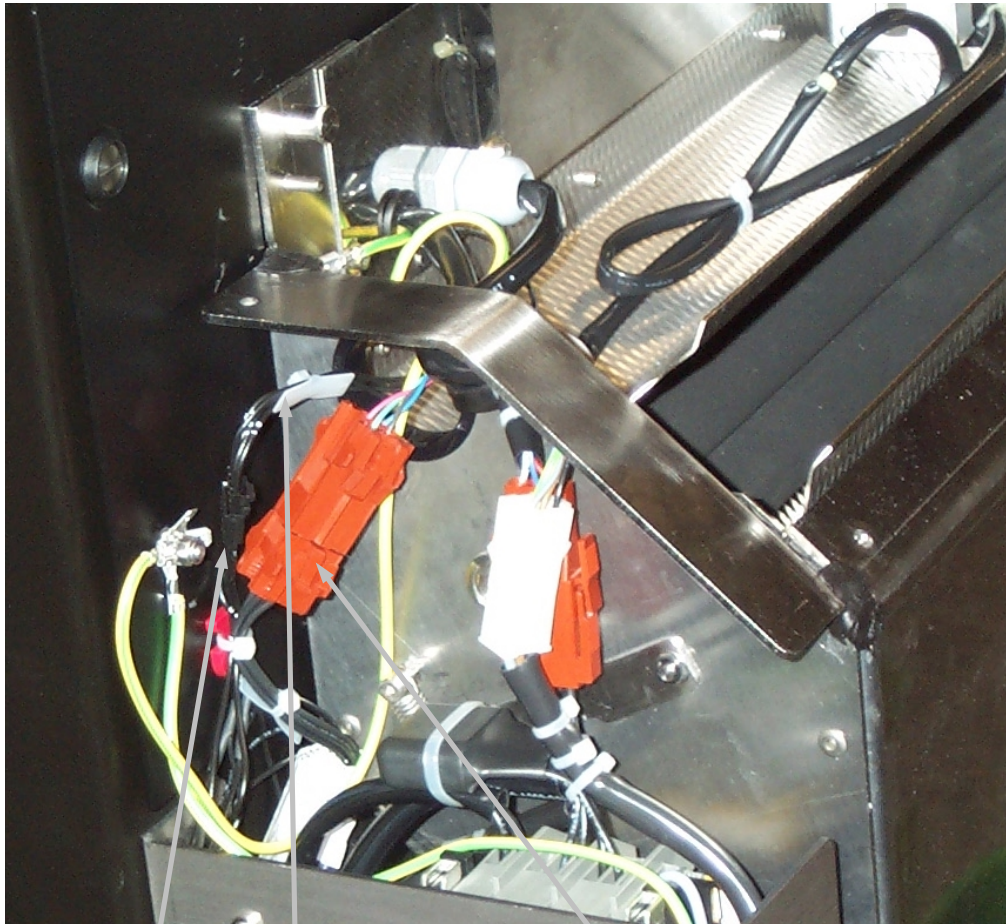


Figure 3 – 3

Film Flip Mechanism Assembly *Cont.*

Item	Part Number	Description	Qty
1	9317416	Flap cam with “E” Clip	1
2	9250176	Stepper Motor (M13)	1
3	On request	Film flip flap	1
4	9303986	Roller assembly	2
5	9212831	Pin for cam	1
6	9317376	Anti – vibration Nut (Not Shown)	4

Film Flip Mechanism Assembly *Cont.*



1

3

Figure 3 – 4

2

Film Flip Mechanism Assembly *Cont.*

Item	Part Number	Description	Qty
1	931 3012	Signal cable harness. Connector for B101 and B100 routed along "Power Bracket" in the back of Miniloader and down to connectors in "Cable Duct"	1
2	931 7501	Cable Extension, Roller-Motor (Stepper Motor)/ assembled "between Roller Motor and Cable Duct	1
3	931 7511	Harness, Film Chute / assembled between Film Flip Mechanism Assembly (FFMA) Movable Flap switches, Upper and Lower positions in the back of the Film Chute and terminal "D" on harness. Connected to Item 1. (931 3012)	1

MINILOADER 2000P

with

FILM FLIP MECHANISM

and

MINILOADER 2000

Numeric and Alphabetic Part List

CHAPTER 4

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Alphabetic Page 4 – 9

NOTE:

Parts having no part number and labelled “On request” will not be held in CPSE as it is considered unlikely that they will be required.

If these parts are required they will be made available from the vendor on request .

Part List ML2000

Sub Assemblies

Part Number	Description	Figure	Qty
	CHUTE ASSEMBLY		
9306166	Air Cylinder	2-1	2
4533351	Micro Switch. Chute Limit Switches Top and Bottom (1 not shown)	2-1	4
	MAGAZINE DRAWER ASSEMBLY		
9302496	Magazine Latch Assembly	2-2 / 2-5	1
9218982	Photo-cell (Blue)	2-7	2
9308086	Harness (Photo-cell)	2-2	1
9218996	Photo-cell (Coding)	2-6 / 2-2	3
	MOVEABLE GUIDE PARTS		
9302236	Moveable Guide	2-7	1
8374860	Spring	2-7	2
9302626	Shaft	2-7	1
4500521	“E” Clip	2-7	2
	LIGHT TRAP		
9302856	Light Trap Brush (Large)	2-4	1
9302856	Light Trap Brush (Small) <i>Cut from 9302856</i>	2-4	2
4283401	Set Screw (3 mm x 8 mm)	2-2	10
4853251	Nut (3 mm)	2-2	10
4480032	Washer (3 mm)	2-2	10

Part List ML2000

Sub Assemblies

Part Number	Description	Figure	Qty
	DRAWER PARTS		
9185371	Bearing (Large) 22 mm	2-6	10
9183786	Bearing (Small)	2-4	8
4500521	“E” Clip (Small)	2-2	8
4500561	“E” Clip (Large)	2-6	10
	MAGAZINE LOCATOR		
9180522	Roller	2-6	2
9302326	Shaft (ASSEMBLY Including “E” Clips 4500521)	2-6	2
4500521	“E” Clip	2-6	4

Part List for Film Flip Mechanism

Sub Assemblies

Part Number	Description	Figure	Qty
	FLAP MOTOR & ASSOCIATED PARTS		
9218126	Motor (Flap Motor) M11	3-1	1
9317206	Flap	3-3	1
9317396	Pivot	3-3	2
4500521	“E” Clip	3-2	5
9216301	Cam	3-3	1
4796371	Spring Pin	3-2	1
4533351	Micro switch	3-1	2
4282791	Screw	3-1	4
9181131	Plate (Tap Strip)	3-1	2
4480032	Washer	3-1	4
9182561	Actuator	3-1	2
9317516	Sensor Harness (see item 3 page 3 – 9)	3-4	1
9318216	Fan (Not Shown)	3-1	1
9317376	Anti-vibration Nut (Not Shown)	3-3	4
	ROLLER DRIVE & MOTOR		
9317386	Belt (Not Shown)	3-2	1
9250176	Motor (Stepper Motor) M13	3-3	1
9211731	Washer “Used as a Flange for the Roller Pulley”	3-2	2
9301856	Roller Pulley	3-2	1
9216111	Motor Pulley	3-2	1
4796371	Pin Motor Pulley	3-2	1
9212831	Pin Roller Pulley	3-2	1

Part List for Film Flip Mechanism (continued)

Sub Assemblies

Part Number	Description	Figure	Qty
4500521	“E” Clip Motor Pulley	3-2	1
4500561	“E” Clip Roller Pulley	3-2	4
9303986	Roller (Foam)	3-3	2
9217011	Bearing	3-3	4
On request	Lever (Tensioner)	3-2	2
8374860	Spring	3-2	2

Numeric Part List

Part Number	Description	Figure	Qty
4282791	Screw	3-1	4
4480032	Washer (3 mm)	2-2	10
4480032	Washer	3-1	4
4500521	“E” Clip	2-7	2
4500521	“E” Clip (Small)	2-2	8
4500521	“E” Clip	2-6	4
4500521	“E” Clip	3-2	5
4500521	“E” Clip Motor Pulley	3-2	1
4500561	“E” Clip (Large)	2-6	10
4500561	“E” Clip Roller Pulley	3-2	4
4533351	Micro Switch. Chute Limit Switches Top and Bottom	2-1	4
4533351	Micro switch	3-1	2
4796371	Spring Pin	3-2	1
4796371	Pin Motor Pulley	3-2	1
4853251	Nut (3 mm)	2-2	10
8374860	Spring	2-7	2
8374860	Spring	3-2	2
9180522	Roller	2-6	2
9181131	Plate (Tap Strip)	3-1	2
9182561	Actuator	3-1	2
9183786	Bearing (Small)	2-4	8
9185371	Bearing (Large) 22 mm	2-6	10
9211731	Washer “Used as a Flange for the Roller Pulley”	3-2	2
9212831	Pin Roller Pulley	3-2	1
9216111	Motor Pulley	3-2	1

Numeric Part List *Continued*

Part Number	Description	Figure	Qty
9216301	Cam	3-3	1
9217011	Bearing	3-3	4
9218126	Motor (Flap Motor) M17	3-1	1
9218982	Photo-cell (Blue)	2-7	2
9218996	Photo-cell (Coding)	2-6/2-2	3
9250176	Motor (Stepper Motor) M13	3-3	1
9301856	Roller Pulley	3-2	1
9302236	Moveable Guide	2-7	1
9302326	Shaft (ASSEMBLY Including "E" Clips 4500521)	2-6	2
9302496	Magazine Latch Assembly	2-2/2-5	1
9302626	Shaft	2-7	1
9302856	Light Trap Brush (Large)	2-4	1
9303986	Roller (Foam)	3-3	2
9306166	Air Cylinder	2-1	2
9308086	Harness (Photo-cell)	2-2	1
9317206	Flap	3-3	1
9317376	Anti-vibration Nut (Not Shown)	3-3	4
9317386	Belt (Not Shown)	3-2	1
9317396	Pivot	3-3	2
9317516	Sensor Harness (see item 3 page 3 – 9)	3-4	1
9318216	Fan (Not Shown)	3-1	1
9302856	Light Trap Brush (Small) <i>Cut from 9302856</i>	2-4	2
4283401	Set Screw (3 mm x 8 mm)	2-2	10
On request	Lever (Tensioner)	3-2	2

Alphabetic Part List

Part Number	Description	Figure	Qty
9182561	Actuator	3-1	2
9306166	Air Cylinder	2-1	2
9317376	Anti-vibration Nut (Not Shown)	3-3	4
9217011	Bearing	3-3	4
9185371	Bearing (Large) 22 mm	2-6	10
9183786	Bearing (Small)	2-4	8
9317386	Belt (Not Shown)	3-2	1
9216301	Cam	3-3	1
4500521	E" Clip	2-7	2
4500521	E" Clip	2-6	4
4500561	E" Clip (Large)	2-6	10
4500521	E" Clip (Small)	2-2	8
4500521	E" Clip	3-2	5
4500521	E" Clip Motor Pulley	3-2	1
4500561	E" Clip Roller Pulley	3-2	4
9318216	Fan (Not Shown)	3-1	1
9211731	Washer "Used as a Flange for the Roller Pulley"	3-2	2
9317206	Flap	3-3	1
9308086	Harness (Photo-cell)	2-2	1
On request	Lever (Tensioner)	3-2	2
9302856	Light Trap Brush (Large)	2-4	1
9302856	Light Trap Brush (Small) <i>Cut from 9302856</i>	2-4	2
9302496	Magazine Drawer Latch Assembly	2-2/2-5	1
4533351	Micro switch	3-1	2

Alphabetic Part List *Continued*

Part Number	Description	Figure	Qty
4533351	Micro Switch. Chute Limit Switches Top and Bottom	2-1	4
9218126	Motor (Flap Motor) M17	3-1	1
9250176	Motor (Stepper Motor) M13	3-3	1
9216111	Motor Pulley	3-2	1
9302236	Moveable Guide	2-7	1
4853251	Nut (3 mm)	2-2	10
9218982	Photo-cell (Blue)	2-7	2
9218996	Photo-cell (Coding)	2-6/2-2	3
4796371	Pin Motor Pulley	3-2	1
9212831	Pin Roller Pulley	3-2	1
9317396	Pivot	3-3	2
9181131	Plate (Tap Strip)	3-1	2
9180522	Roller	2-6	2
9303986	Roller (Foam)	3-3	2
9301856	Roller Pulley	3-2	1
4282791	Screw	3-1	4
9317516	Sensor Harness (see item 3 page 3 – 9)	3-4	1
4283401	Set Screw (3 mm x 8 mm)	2-2	10
9302626	Shaft	2-7	1
9302326	Shaft (ASSEMBLY Including “E” Clips 4500521)	2-6	2
8374860	Spring	2-7	2

Alphabetic Part List *Continued*

Part Number	Description	Figure	Qty
8374860	Spring	3-2	2
4796371	Spring Pin	3-2	1
4480032	Washer	3-1	4
4480032	Washer (3 mm)	2-2	10

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